## In the Claims

Amend the Claims as follows:

(currently amended) A retro-fit product security system,
 comprising:

a radio frequency identification (RFID) chip with an embedded unique serial number and responsive to wireless interrogation by a reader;

an a tuned antenna connected to the RFID chip and being critically tuned to operate at a particular frequency and supporting said wireless interrogation; and

a first product packaging part to which the RFID chip is permanently attached by thermosetting cross-linked polymers which obviate attempts to remove the RFID chip;

a second product-packaging part to which the antenna ispermanently attached by thermosetting cross-linked polymers which obviate
attempts to remove the antenna; and

a third product-packaging part which provides for access and that is bridged by the antenna connecting to the RFID chip;

polymerized constituent monomers formed into long-chain crosslinked polymers that entangle said wireless RFID chip and tuned antenna with a product container;

wherein, any opening of the third product packaging part said product container or removal of the wireless RFID chip and tuned antenna breaks the antenna and renders the RFID chip inoperable.

- 2. (currently amended) The system of claim 1, further comprising: a reader for said wireless interrogation of the RFID chip via the antenna and able to wirelessly collect said unique serial number and sense a detuning of said tuned antenna.
- 3. (currently amended) The system of claim 2, further comprising:

  a first product-packaging part to which the RFID chip is

  permanently attached by thermosetting cross-linked polymers which obviate attempts to remove the RFID chip;
- a second product-packaging part to which the antenna is permanently attached by thermosetting cross-linked polymers which obviate attempts to remove the antenna;
- a third product-packaging part which provides for access and that is bridged by the antenna connecting to the RFID chip; and
- a product container including the first-through third product-
- a database of unique serial numbers and their associations with particular protected products originally supplied in the product container.
  - 4. (currently amended) The system of claim 1, further comprising:
- a sensor for placement inside a <u>said</u> product container <u>including the first through third product packaging parts</u>, and connected to the RFID chip, and providing for a physical measurement and wireless reporting of an attribute of an originally supplied protected product within.

5. (currently amended) The system of claim 1, further comprising:

a product container including the first through third product
packaging parts, and for packaging a particular protected product

originally supplied by a producer; and

a sensor placed inside the product container, and connected to the RFID chip, and providing for a measurement and wireless reporting of a change in a particular characteristic physical attribute of said product.

- 6. (currently amended) The system of claim 1 4, further comprising:

  a database of unique serial numbers and their associations with
  said physical measurement that provides for product-quality surveillance.
- 7. (currently amended) A secure product container, comprising: a radio frequency identification (RFID) chip with an embedded unique serial number and responsive to wireless interrogation by a reader;

an antenna connected to the RFID chip and being critically tuned to operate at a particular frequency and supporting said wireless interrogation;

a first product-packaging part to which the RFID chip is 

embedded entangled by polymerized constituent monomers formed into long
chain cross-linked polymers and which makes will render obvious any

attempts to physically access the RFID chip;

a second product-packaging part to which the antenna is embedded entangled by polymerized constituent monomers formed into longchain cross-linked polymers and which makes will render obvious any attempts to physically access the antenna; and

a third product-packaging part which provides for opening and that is bridged by the antenna connecting to the RFID chip;

wherein, an opening of the third product-packaging part breaks the antenna and renders the RFID chip inoperable.

8. (currently amended) A method for delivering products to consumers, comprising:

embedding a wireless RFID chip in a product package with a tuned antenna that will be damaged when the product package is entered;

polymerizing constituent monomers with heat into long-chain cross-linked polymers that entangle said wireless RFID chip, product package, and tuned antenna;

collecting a unique serial number from said RFID chip via wireless communication through said tuned antenna;

associating said unique serial number with a particular series of production runs during manufacture into a manufacturer's database;

interrogating said unique serial number directly from a particular product package;

comparing said unique serial number obtained in the step of interrogating with data in said manufacturer's database; and

accepting the product in said product package as safe or legitimate if said step of comparing results in a match.

- 9. (original) The method of claim 8, wherein:

  the step of collecting will fail to report said unique serial
  number if said product package has been entered.
- 10. (original) The method of claim 8, further comprising:
  inspecting said product package for evidence of tampering with
  said RFID chip or tuned antenna.
- 11. (original) The method of claim 8, wherein:

  the step of collecting will fail to report said unique serial

  number if said product package has been tampered with enough to detune or
  - 12. (original) The method of claim 8, wherein:

ruin said tuned antenna.

the step of embedding said wireless RFID chip and tuned antenna is such that attempts to physically access them after manufacturing will be visually obvious to a consumer.

13. (original) The method of claim 8, wherein:

the step of embedding said wireless RFID chip and tuned antenna further includes placing a sensor in contact with a product enclosed by said product package.

14. (original) The method of claim 13, further comprising:

reporting a change in a physical characteristic of said product

via said RFID chip as measured by said sensor.